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Feed-through terminal block, connection method: Push-in connection, Screw connection, cross section: 0.2 mm² - 6 mm², AWG: 24 - 12, width: 6.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15

Your advantages

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- The push-in connection is used inside the control cabinet and the universal screw connection is used on the end customer side



Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 055626 057262
GTIN	4055626057262
Weight per Piece (excluding packing)	9.400 g
Custom tariff number	85369010
Country of origin	China
Note	Made to Order (non-returnable)

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	4 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.02 W
Ambient temperature (operation)	-60 °C 85 °C
Ambient temperature (storage/transport)	-25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Humidity minimum	30 %
Humidity maximum	70 %
Additional text	For a short time, not exceeding 24 h, -60 to +70 °C
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	38 A (the maximum load current must not be exceeded by the total current of all connected conductors)
Nominal current I _N	32 A
Nominal voltage U _N	800 V
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	38 A (with 6 mm² conductor connection)
Nominal current I _N	32 A
Nominal voltage U _N	800 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm²
Tractive force setpoint	10 N



Technical data

General

Tractive force selpoint Conductor cross section tensile test 6 mm² Tractive force selpoint Result of tight fit on support Tractive force selpoint Result of tight fit on carrier NS 35 Setpoint 1 N Result of tight fit on carrier NS 35 Setpoint 1 N Result of tight fit on carrier NS 35 Setpoint Result of tight fit on carrier NS 35 Setpoint Result of tight fit on carrier NS 35 Setpoint Result of tight fit on carrier NS 35 Setpoint Result of tight fit on carrier NS 35 Setpoint Result of tight fit on carrier Result of themperature test Test passed Conductor cross section short circuit testing 4 mm² Short-time current 0.48 kA Conductor cross section short circuit testing 6 mm² Short-time current 0.72 kA Result of aging test Result of aging test Result of aging test Result of thermal test Test passed Discrimination current Result of thermal test Test passed Discrimination consolitation, broadband noise test result Test specification, socialistion, broadband noise test result Test specification, socialistion, broadband noise Din En 50156 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency fit set to fit fit on carrier Result of thermal test Test green fit on carrier Result of the fit on the carrier Result of the man and the carrier Result of the man and the carrier Result of	Conductor cross section tensile test	4 mm²
Conductor cross section tensile test Tractive force setpoint Result of tight fit on support Test passed Tight it on carrier NS 35 Setpoint 1 N Result of voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Requirements, voltage drop Result of temperature-rise test Test passed Test passed Test passed Short circuit stability result Test passed Short-time current 0.48 kA Conductor cross section short circuit testing Short-time current 0.48 kA Conductor cross section short circuit testing Short-time current 0.72 kA Result of aging test Test passed Test passed 3.72 kA Result of signit test Test passed 3.03 s Socillation, broadband noise test result Test passed Din En 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise test result Test specification, oscillation, broadband noise Din En 50155 (VDE 0115-200):2008-03 Test specification per axis Test specification per axis Test specification per axis Test specification, shock test Din En 50156 (VDE 0115-200):2008-03 Test directions X, Y- and Z-axis Shock Korn Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 18 ms Number of shocks per direction 19 CC Static insulating material application in cold Surface filamability NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	Tractive force setpoint	60 N
Result of tight fit on support Tight fit on carrier NS 35 Setpoint In the carrier NS 35 Setpoint Result of Voltage-drop test Requirements, voltage drop Set passed Requirements, voltage drop Result of temperature-rise test Test passed Requirements, voltage drop Result of temperature-rise test Test passed Test passed Test passed Tonductor cross section short circuit testing A mm² Short-time current O.48 kA Conductor cross section short circuit testing Short-time current O.72 kA Result of aging test Result of aging test Result of family section of the mm² Short-time current O.72 kA Result of family section of the mm² Result of family section of the mm² Short-time current O.72 kA Result of family section of the mm² Result of family section of the mm² Short-time current O.72 kA Result of family section of the mm² Result of family section of the mm² Short-time current O.72 kA Description of the mm² Double section of the mm² Short-time current O.72 kA Description of the mm² Double section of the mm	·	6 mm²
Tight fit on carrier Setpoint 1 N Result of voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Test passed Test passed Test passed Test passed Conductor cross section short circuit testing A mm² Short-time current O.48 kA Conductor cross section short circuit testing 6 mm² Short-time current O.72 kA Test passed Test passed Ageing test for screwless modular terminal block temperature cycles Result of aging test Test passed Ageing test for screwless modular terminal block temperature cycles Result of thermal characteristics (needle flame) effective duration Oscillation, troadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to f = 250 Hz ASD level ACceleration 3:12 g Test duration per axis 5 h Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration Bin EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis 5 h Test directions X, Y- and Z-axis Shock form Half-sine Acceleration 30 g Shock form Half-sine Acceleration 30 g Test directions X, Y- and Z-axis (pos. and neg.) Test directions X, Y- and Z-axis (pos. and neg.) Test directions Test directions X, Y- and Z-axis (pos. and neg.) Test directions Test directions X, Y- and Z-axis (pos. and neg.) Test directions Test directions Acceleration Test firections Acceleration Test firections Acceleration Test firections Acceleration Test directions Acceleration Test direct	Tractive force setpoint	80 N
Setpoint 1 N Result of voltage-drop test 7 Test passed 8 Test passed 8 Test passed 8 Test passed 9 T	Result of tight fit on support	Test passed
Result of voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Short circuit shibitly result Conductor cross section short circuit testing Amm² Short-lime current O.48 kA Conductor cross section short circuit testing 6 mm² Short-lime current 0.72 kA Result of aging test For screwless modular terminal block temperature cycles Result of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specifum Service life test category 2, bogie-mounted Test frequency ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions X-, Y- and Z-axis Shock form Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 Test directions X, Y- and Z-axis (pos. and neg.) Test directions Test directions Test directions Ax, Y- and Z-axis (pos. and neg.) Test directions Test	Tight fit on carrier	NS 35
Requirements, voltage drop Result of temperature-rise test Test passed Test passed Test passed Conductor cross section short circuit testing Short-time current O.48 kA Conductor cross section short circuit testing Short-time current O.72 kA Result of aging test Ageing test for screwless modular terminal block temperature cycles Result of thermal test Proof of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test spassed Din EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise Est frequency f ₁ = 5 Hz to f ₂ = 250 Hz Acceleration 3.12 g Test duration per axis Test passed Test predictions X-, Y- and Z-axis Shock test result Test passed Test duration per axis Test duration per axis Test duration per axis Test duration per axis Test passed Tes	Setpoint	1 N
Result of temperature-rise test Short circuit stability result Test passed Test passed 1 Test passed 2 Test passed 2 Test passed 3 Test passed 4 mm² Short-time current 3 Test passed 3 Test passed 4 Test passed 4 Test passed 5 Test passed 7 Test passed 7 Test passed 7 Test passed 8 Test passed 9 Test passed 1 Test passed 2 Test passed 3 Sevice life test category 2, pogie-mounted 1 Test frequency 1 Test frequency 1 Test frequency 1 Test frequency 1 Test passed 3 Test passed 5 Test passed 6 Test passed 7 Test passed 8 Test passed 1 Test passed 1 Test passed 1 Test passed 2 Test passed 3 Sevice life test category 2, pogie-mounted 1 Test frequency 2 Test passed 3 Test passed 5 Test duration per axis 5 Test duration per axis 5 Test duration per axis 5 Test passed 1 Test duration per axis 1 Test specification, shock test 1 Test specification, shock test 2 DIN En 50155 (VDE 0115-200):2008-03 3 Shock test result 3 Test specification, shock test 3 DIN En 50155 (VDE 0115-200):2008-03 5 Shock from 4 Test passed 7 Test directions 7 Test directions 8 Test passed 1 Test passed 2 Test passed 2 Test passed 3 Test passed 3 Test passed 4 Test passed 5	Result of voltage-drop test	Test passed
Short circuit stability result Conductor cross section short circuit testing 4 mm² 0.48 kA Conductor cross section short circuit testing 6 mm² Short-time current 0.72 kA Result of aging test Result of aging test Test passed Ageing test for screwless modular terminal block temperature cycles 192 Result of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test spassed Test spassed Test spassed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification oscillation and test explain test frequency fr. = 5 Hz to fr. = 250 Hz Ascoleration 3.12 g Test duration per axis 5 h Test duration per axis 5 h Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulation gaterial application in cold Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	Requirements, voltage drop	≤ 3.2 mV
Conductor cross section short circuit testing A mm² Short-time current 0.48 kA Conductor cross section short circuit testing 6 mm² Short-time current 0.72 kA Result of aging test Ageing test for screwless modular terminal block temperature cycles Result of thermal test Proof of thermal characteristics (needle flame) effective duration 30 s Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, begie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test gassed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock torm Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 metal directions X. Y. and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	Result of temperature-rise test	Test passed
Short-time current O.48 kA Conductor cross section short circuit testing 6 mm² Short-time current O.72 kA Result of aging test Ageing test for screwless modular terminal block temperature cycles 192 Result of thermal test Test passed Proof of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DiN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DiN EN 50155 (VDE 0115-200):2008-03 Test frequency \$\frac{1}{5}\$ = 5 Hz to \$\frac{1}{5}\$ = 250 Hz ASD level \$\frac{6}{12}\$ (m/s^3)^7/Hz Acceleration 3.12 g Test duration per axis \$\frac{5}{5}\$ h Test directions X., Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Half-sine Acceleration 30g Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X., Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162)	Short circuit stability result	Test passed
Conductor cross section short circuit testing Short-time current 0.72 kA Result of aging test Ageing test for screwless modular terminal block temperature cycles Result of thermal test Test passed 7 rest passed 7 rest passed 7 rest passed 8 result of thermal test Test passed 9 roof of thermal characteristics (needle flame) effective duration 9 oscillation, broadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency Test frequency Test frequency Test duration per axis Test duration per axis Test duration per axis Test duration per axis The total control of the service	Conductor cross section short circuit testing	4 mm²
Short-time current Result of aging test Result of aging test for screwless modular terminal block temperature cycles Result of thermal test Result of thermal test Test passed Proof of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test spassed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X. Y- and Z-axis Shock test result Test spessed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Half-sine Acceleration 30 g Shock duration Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662)	Short-time current	0.48 kA
Result of aging test Ageing test for screwless modular terminal block temperature cycles 192 Result of thermal test Proof of thermal characteristics (needle flame) effective duration 30 s Oscillation, broadband noise test result Test passed Test spassed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to f, = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test spassed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test 1 Test passed Test specification 30 g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL. 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Fencil passed Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162)	Conductor cross section short circuit testing	6 mm²
Ageing test for screwless modular terminal block temperature cycles Result of thermal test Proof of thermal characteristics (needle flame) effective duration 30 s Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³²) ² Hz Acceleration Test duration per axis 5 h Test directions Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 18 ms Number of shocks per direction 3 ag Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Foc C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662)	Short-time current	0.72 kA
Result of thermal test Proof of thermal characteristics (needle flame) effective duration 30 s Oscillation, broadband noise test result Test spassed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions Shock form Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test directions X-, Y- and Z-axis (pos. and neg.) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662)	Result of aging test	Test passed
Proof of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Half-sine Acceleration 3.09 Shock form Half-sine Acceleration 309 Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test directions 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Fencile quarter index of smoke NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 162) passed	Ageing test for screwless modular terminal block temperature cycles	192
Oscillation, broadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions 3 X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Result of thermal test	Test passed
Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration Test duration per axis 5 h Test duration per axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Bhock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 30 Test directions X-, Y- and Z-axis Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Proof of thermal characteristics (needle flame) effective duration	30 s
Test spectrum Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ ASD level $6.12 (\text{m/s}^2)^2/\text{Hz}$ Acceleration 3.12 g Test duration per axis 5 h Test directions $X, Y \text{ and } Z \text{ axis}$ Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 7est directions $X, Y \text{ and } Z \text{ axis}$ Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test direction 30g Shock duration 18 ms Number of shocks per direction 7est directions X, Y and Z axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Oscillation, broadband noise test result	Test passed
Test frequency $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $ASD \text{ level} \qquad \qquad$	Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test spectrum	Service life test category 2, bogie-mounted
Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Test duration per axis Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	ASD level	6.12 (m/s ²) ² /Hz
Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Acceleration	3.12 g
Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test duration per axis	5 h
Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test directions	X-, Y- and Z-axis
Shock form Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold 5 cc Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Shock test result	Test passed
Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Shock form	Half-sine
Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Acceleration	30g
Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 130 °C Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Shock duration	18 ms
Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Number of shocks per direction	3
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test directions	X-, Y- and Z-axis (pos. and neg.)
0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed passed	Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed passed		130 °C
Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Static insulating material application in cold	-60 °C
	Surface flammability NFPA 130 (ASTM E 162)	passed
Smoke gas toxicity NFPA 130 (SMP 800C) passed	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
	Smoke gas toxicity NFPA 130 (SMP 800C)	passed



Technical data

General

Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Dimensions

Width	6.2 mm
Length	58.8 mm
Height NS 35/7,5	42.8 mm
Height NS 35/15	50.3 mm
End cover width	2.2 mm

Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	10 mm 12 mm
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	1 mm²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Internal cylindrical gage	A4
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1



Technical data

Connection data

Sommon and	
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²
2 conductors with same cross section, solid min.	0.14 mm²
2 conductors with same cross section, solid max.	1.5 mm ²
2 conductors with same cross section, stranded min.	0.14 mm²
2 conductors with same cross section, stranded max.	1.5 mm ²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	0.14 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	1.5 mm ²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	2.5 mm²

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized



Approvals

Ex Approvals

Approval details

UL Recognized	http://database.ul.com	m/cgi-bin/XYV/template/LISEXT/1FR/	AME/index.htm FILE E 60425
	В	С	D
Nominal voltage UN	600 V	600 V	600 V
Nominal current IN	30 A	30 A	5 A
mm²/AWG/kcmil	24-10	24-10	24-10

cUL Recognized	http://database.ul.com	m/cgi-bin/XYV/template/LISEXT/1FR/	AME/index.htm FILE E 60425
	В	С	D
Nominal voltage UN	600 V	600 V	600 V
Nominal current IN	30 A	30 A	5 A
mm²/AWG/kcmil	24-10	24-10	24-10

EAC	EAC	RU C- DE.Al30.B.01102

EAC	EAC	RU C- DE.BL08.B.00644
	LIIL	DE.BL00.B.0004

cULus Recognized	c Fl us			
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